ACD Performance Card

Model type: Regression, 4000 data points

Mean Square Error = 0.02112892

Mean square error informs the user how close the regression line is to a set of data points. The errors are the distance from the point to the line and the difference is squared to account for negatives and provide weight to larger differences. MSE should be minimized as 0 is no error.

Root Mean Square Error = 0.14535790

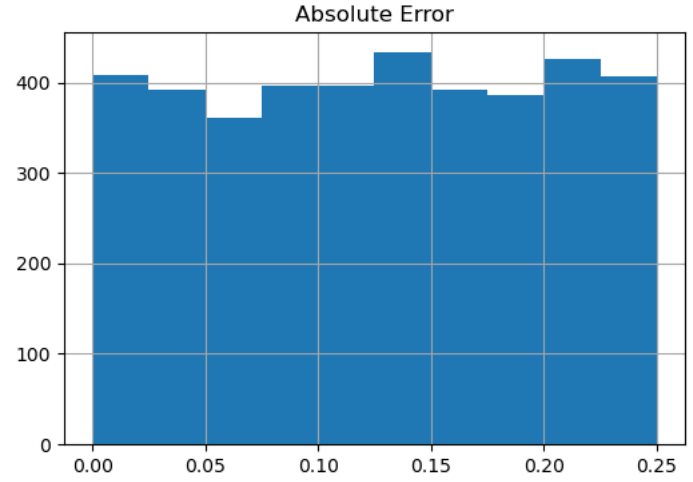
Root mean square error is the standard deviation of the prediction errors, or the spread of the errors about the line of best fit. If the RMSE is 0, the data points lie exactly on the line of best fit. RMSE is scale dependent so it should not be used to compare different types of data.

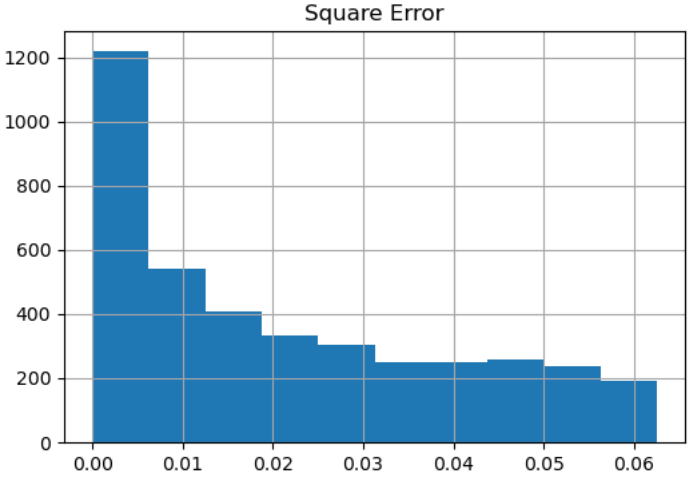
Mean Absolute Error = 0.12603599

Mean absolute error is the average magnitude of the errors without accounting for the error direction. Similarly to MSE and RMSE, the mean absolute error should be minimized, with considerations for overfitting, to reduce the error in the best fit line.

R-Squared = 0.76674564

R-squared, or the coefficient of determination, measures the proportion of variance of the dependent variable that is described by the independent variable. An R-squared value close to 1 tells the user how well the model describes the data. A high R-squared value is not always optimal and can indicate issues.





Housing_Type

	R-Squared	MSE	MAE	RMSE
Condominium	0.76652	0.02070	0.12334	0.14389
Semi-Detached	0.76215	0.02105	0.12673	0.14510
Apartment	0.75571	0.02167	0.12886	0.14720
Multi Family	0.76651	0.02143	0.12645	0.14639
Single Family	0.78031	0.02079	0.12480	0.14419

State

	R-Squared	MSE	MAE	RMSE
GA	0.76116	0.02204	0.12792	0.14845
FL	0.78931	0.02168	0.12915	0.14725
DE	0.73221	0.02345	0.13507	0.15313
CT	0.77592	0.01959	0.12061	0.13995
CO	0.74888	0.02046	0.12491	0.14306
CA	0.83068	0.01584	0.10570	0.12587
AR	0.79383	0.02049	0.12297	0.14315
AZ	0.77596	0.02064	0.12232	0.14367
AK	0.76306	0.02262	0.13160	0.15040
AL	0.72586	0.01990	0.12157	0.14105

State

	R-Squared	MSE	MAE	RMSE
MD	0.79040	0.01979	0.12051	0.14069
MA	0.76158	0.02253	0.13506	0.15011
LA	0.80202	0.01621	0.10855	0.12733
KY	0.77849	0.01985	0.12404	0.14089
KS	0.73180	0.02111	0.12882	0.14530
IA	0.74232	0.02203	0.12855	0.14844
IN	0.77274	0.02053	0.12249	0.14327
IL	0.73357	0.02173	0.12974	0.14741
ID	0.77366	0.01985	0.12167	0.14089
HI	0.67463	0.02172	0.13049	0.14739

State

	R-Squared	MSE	MAE	RMSE
NJ	0.69760	0.02506	0.14021	0.15831
NH	0.78015	0.02166	0.13080	0.14717
NV	0.81737	0.01922	0.11497	0.13863
NE	0.79761	0.01878	0.11496	0.13703
MT	0.77059	0.02061	0.12433	0.14355
MO	0.78435	0.01943	0.12258	0.13940
MS	0.72579	0.02108	0.12592	0.14520
MN	0.79631	0.02076	0.12484	0.14408
MI	0.76903	0.02030	0.12245	0.14249
ME	0.77131	0.02229	0.13095	0.14931

State

	R-Squared	MSE	MAE	RMSE
SC	0.74705	0.02157	0.12712	0.14687
RI	0.81267	0.01954	0.12113	0.13980
PA	0.77119	0.01997	0.12185	0.14131
OR	0.76045	0.02034	0.12494	0.14263
OK	0.79792	0.02056	0.12150	0.14339
OH	0.73542	0.02432	0.13819	0.15594
ND	0.68446	0.02377	0.13557	0.15418
NC	0.76774	0.02076	0.12266	0.14409
NY	0.77519	0.02064	0.12180	0.14368
NM	0.74718	0.02185	0.12938	0.14782

State

	R-Squared	MSE	MAE	RMSE
WY	0.76522	0.02221	0.13036	0.14902
WI	0.72893	0.02147	0.12644	0.14652
WV	0.76447	0.02168	0.12281	0.14726
WA	0.74718	0.02086	0.12787	0.14443
VA	0.80777	0.01874	0.11688	0.13690
VT	0.65155	0.02472	0.13811	0.15724
UT	0.74986	0.02164	0.12575	0.14709
TX	0.78244	0.02351	0.13584	0.15332
TN	0.70514	0.02262	0.13280	0.15039
SD	0.74170	0.02439	0.13706	0.15618

ACD_IMG_DATE

	R-Squared	MSE	MAE	RMSE
2-3-12	0.76947	0.02150	0.12583	0.14663
10-2-12	0.75839	0.02166	0.12877	0.14718
9-9-14	0.76046	0.02150	0.12739	0.14664
4-7-20	0.75464	0.02134	0.12750	0.14609
4-8-19	0.78953	0.01953	0.11942	0.13975
1-5-15	0.77473	0.02073	0.12511	0.14397
6-7-17	0.76623	0.02026	0.12293	0.14234
10-1-18	0.75689	0.02250	0.13133	0.15002